

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002985**Date Inspected:** 13-Jan-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG) and Office.**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Sub-Assemblies (OBG)**

Service Platform SP6-02, NOI Number 5745: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Service Platform SP6-02. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panels BK004A-056 and BK004A-018, NOI Number 5746: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Bike Path Panel BK004A-056 and BK004A-018. Test results recorded x1 surface profile reading of 45 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (61 Each), NOI Number 5748: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the final coat installation on Crash Barriers External Surfaces (61 Each). ABF and ZPMC QA/QC recorded final surface dry

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film thickness readings (DFT) in accordance with SSPC-PA2. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to low DFT readings on six Crash Barriers (see NOI for defective numbers).

Bike Path Panels (4 Each), NOI Number 5751: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the final coat installation on Bike Path Panels (4 Each). ABF and ZPMC QA/QC recorded final surface dry film thickness readings (DFT) in accordance with SSPC-PA2. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to low DFT readings.

Traveler Rail (8 Each) and Bike Path Panels (3 Each), NOI Number 5752: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Traveler Rail (8 Each) and Bike Path Panels (3 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x3 MEK @ grade 5 and x1 soluble salts recorded reading of 28.0  $\mu\text{s/cm}$ . No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Shim Plates (100 Each) and Grillage Sleeves (52 Each), NOI Number 5753: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Shim Plates (100 Each) and Grillage Sleeves (52 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (13 Each), Shim Plates (4 Each) and L-Splices (14 Each), NOI Number 5754: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (13 Each), Shim Plates (4 Each) and L-Splices (14 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded, and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### **Summary of Conversations:**

### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

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**Inspected By:** Cason,Kenneth

Quality Assurance Inspector

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**Reviewed By:** Miller,Mark

QA Reviewer